INTERNATIONALSEARCHREPORT

International application No. PCT/JP 2004/014128

A. CLASSIFICATION OF SUBJECT MATTER				
Int.Cl7 E	H01L33/00		•	
According to International Patent Classification (IPC) or to both national classification and IPC				
	DS SEARCHED	Alassificacione de la lab		
T-4 C1 2	ocumentation searched (classification system followed by	classification symbols)		
Int.Cl 7	H01L33/00		•	
Japanese Applicati	ion searched other than minimum documentation to the e Utility Model Gazette 1922-1996, Japanes ions 1971-2004, Japanese Registered Utiling the Utility Model 1996-2004	se Publication of Unexamined Uti		
Electronic da	ita base consulted during the international search (name o	of data base and, where practicable, search ter	rms used)	
JST Onl	ine Information System(JOIS)			
C. DOCUI	MENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where ap	ppropriate, of the relevant passages	Relevant to claim No.	
x	Journal of Applied Physics pp.3826-3832, whole documen		1-20	
x	Journal of Applied Physics pp.4491-4497, whole document		1-20	
x	Applied Physics Letters, Vo. pp.3703-3705, whole document	*	1-20	
x	Journal of Applied Physics pp.4196-4200, whole document		1-20	
x	Applied Physics Letters, Vo. pp.3978-3980, whole document		1-20	
x	Journal of Applied Physics pp.1748-1752, whole document	· · · · · · · · · · · · · · · · · · ·	1-20	
Furthe	or documents are listed in the continuation of Box C.	See patent family annex.		
"A" docum	Special categories of cited documents: A" document defining the general state of the art which is not considered to be of particular relevance "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention			
"E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which				
special "O" docume	to establish the publication date of another citation or other reason (as specified) ent referring to an oral disclosure, use, exhibition or other	be considered to involve an inventive combined with one or more other	step when the document is r such documents, such	
	ent published prior to the international filing date but later e priority date claimed	combination being obvious to a person "&" document member of the same pater		
Date of the actual completion of the international search Date of mailing of the international search report				
	17.12.2004	11. 1.	2005	
Name and mailing address of the ISA/JP Authorized officer 2K 9010				
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C (Continua		Τ
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
x	Journal of Crystal Growth, Vol. 230, No. 3/4(2001), pp. 564-568, whole document	1-20
x	J Vac Sci Techol B, Vol.20, No.4(2002), pp.1394-1401, whole document	1-20
A	JP 10-209500 A(TOYODA GOSEI CO.,LTD.), 1998.08.07, whole document (Family:none)	1-20
A	<pre>JP 10-135515 A(TOYODA GOSEICO.,LTD.), 1998.05.22,whole document(Family:none)</pre>	1-20
A	JP 10-308534 A(SHOWA DENKO K.K.),1998.11.17, whole document(Family:none)	1-20
A	Journal of Applied Physics, Vol.83, No.6(1998), pp.3172-3175, whole document	1-20
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